Graph Theory: Lecture No. 28

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The minimum integer k such that G can be represented as the intersection graph of some family of axis-parallel k-dimensional boxes is called the boxicity of G.

For every graph with $n \geq 3$ vertices and minimum degree $\delta \geq n/2$ has a Hamilton cycle.

**Every graph G with $n \geq 3$ and $\kappa(G) \geq \alpha(G)$
has a hamilton cycle.**